## **Medical Physics Practice Guidelines**

Furthering the goal of consistent practice standards in radiation oncology physics

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## Outline

- How we got here:
  - AAPM's history of Task Group work & reports
  - ACR's history of Technical Standards & Practice Guidelines
  - Focus on medical errors and role of regulations
  - Requirements for clinic accreditation
  - Multiple accrediting entities
- Medical Physics Practice Guidelines
  - Vision and scope

# **AAPM Task Group history**

- Significant volunteer activity by domain experts to develop technical reference documents
- Often developed by the "premier centers" in the country
- Task Groups' purpose is not to define a minimum practice standard, but rather to create useful technical reference documents for practicing medical physicists

### **ACR** documents

- Developed through a consensus-focused process with broad representation by different practice environments
- Aim to define a minimum practice standard
- Significant physician influence
- Devoid of much specificity

### **MIPPA**

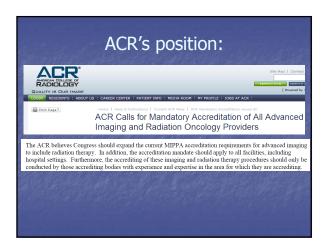
- Medicare Improvements for Patients and Providers Act of 2008:
  - Signed into law in July 2008
  - Requires practice accreditation for the "advanced imaging" modalities which includes CT, MR, and Nuclear Medicine
  - Does not include x-ray, fluoroscopy, sonography, or anything in radiation oncology
  - Does not apply to hospitals

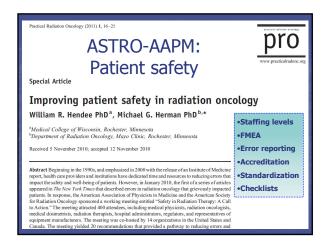
# Accrediting bodies under MIPPA:

- American College of Radiology
- Intersocietal Accreditation Commission
- The Joint Commission
- The Problem/Concern
  - All have different requirements for personnel - AAPM is on record indicating concern with not requiring board certification for medical physicists

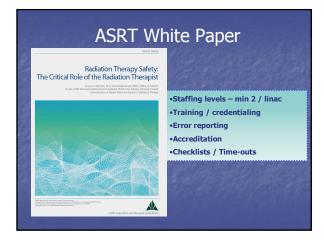
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## Possible result:

- Multitude of accrediting entities, each defining their own QC/safety standards
- State regulations continue to reference Task Group reports, which may be inappropriate for some practice environments

### Proposed solution:

- AAPM develops practice guidelines for medical physics, defining a minimum practice standard for a given scope of clinical service
- Accreditation programs (and state regulations?) incorporate the AAPM practice guidelines rather than defining their own

### **Medical Physics Practice Guidelines**

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE PROFESSIONAL POLICY: PROCESS FOR CREATION, APPROVAL, AND REVISION OF MEDICAL PHYSICS PRACTICE GUIDELINES

INTRODUCTION

The American Association of Physicists in Medicine (AAPM) has long advocated a consistent level of medical physics practice, and has published many guidelines and position statements toward that goal, and-na Science Connell Task Group reports related to calibration and quality assurance, Education Council and Professional Council Task Group reports related to cheation, trauming, and peer review, and Board-approved Position Statements related to the scope of practice, physicist qualifications, and other aspects of medical physics practice. Despite these concreted and enduring efforts, the profession does not have a clear and concise statement of the acceptable practice guidelines for routine clinical medical physics. As accreditation of clinical practices becomes more common, Medical Physics Practice Guidelines (MPPGs) will be crucial to ensuring a consistent benchmark for accreditation programs.

The AAPM will lead the development of MPPGs in collaboration with other professional societies. The MPPGs will be freely available to the general public. Accrediting organizations, regulatory agencies and legislators will be encouraged to reference these

### TG reports vs MPPGs

### TG reports are:

- Intended to be technical reference for medical physicists compendia of the known science on a topic.
- Written by a core group of subject-matter experts
- Reviewed by subject-matter committee and approved by one Council

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## TG reports vs MPPGs

### MPPGs are:

- Developed following a structured process to become consensus practice guidance documents
- Developed with cross-Council participation
- Open for review/comment by ALL members
- Intended to be adopted by regulatory agencies and accrediting entities
- Updated regularly sunset dates / revision #
- Freely available to ALL not just AAPM

## MPPG vision/scope

### 2. Vision

The AAPM will lead the development of MPPGs in collaboration with other professional societies. The MPPGs will be freely available to the general public. Accrediting organizations, regulatory agencies and legislators will be encouraged to reference these MPPGs when defining their respective requirements.

### 3. Scope

MPPGs are intended to provide the medical community with a clear description of the minimum level of medical physics support that the AAPM would consider prudent in all clinical practice settings. Support includes but is not limited to staffing, equipment, machine access, and training. These MPPGs are not designed to replace extensive Task Group reports or review articles, but rather to describe the recommended minimum level of medical physics support for specific clinical services.